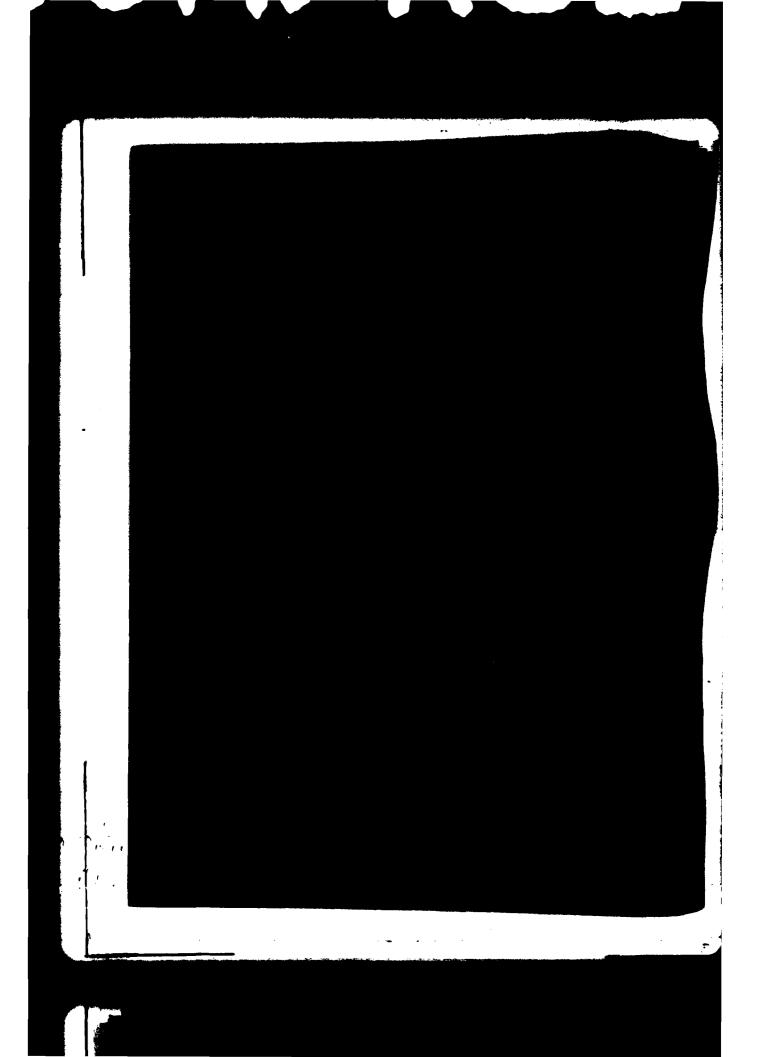


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INTRODUCTION

19304D GSRS , Missile Numbers 1071 and 1079 , Round Numbers V-70 and $\frac{V-71}{V}$, were launched from LC-33 , White Sands Missile Range (WSMR), New Mexico, at 0924 and 0924:16 MDT, 10 October 1979. The scheduled launch times were 0900 and 0900:02.5 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density (qm/m^3), wind direction and speed, and cloud cover were made at the <u>LC-33</u> Met Site at T-0 minutes.
- (2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.
 - b. Upper Air
- (1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

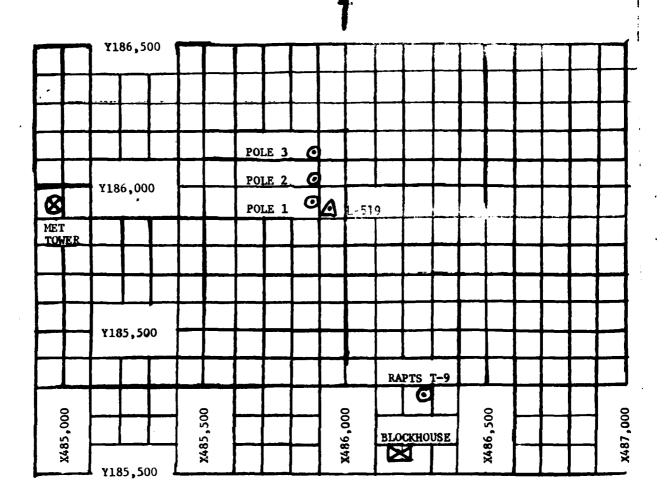
SITE AND ALTITUDE

LC-33 2 KM NICK 2 KM

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 40, 500 feet in 500-feet increments.

SITE AND TIME

SMR 0824 MST



- 1. MET TOWER 4 Bendix Model T-20 Anemometers at 12 ft, 62 ft, 102 ft, and 202 ft with E/A recorders.
- 2. POLE ANEMOMETER Bendix Model T-120 with E/A recorders.
 - (a) Pole #1 38.7 ft
 - (b) Pole #2 53.0 ft
 - (c) Pole #3 83.6 ft
- 3. RAPTS T-9 Radar Automatic Pilot-Balloon Tracking System T-9 Radar.

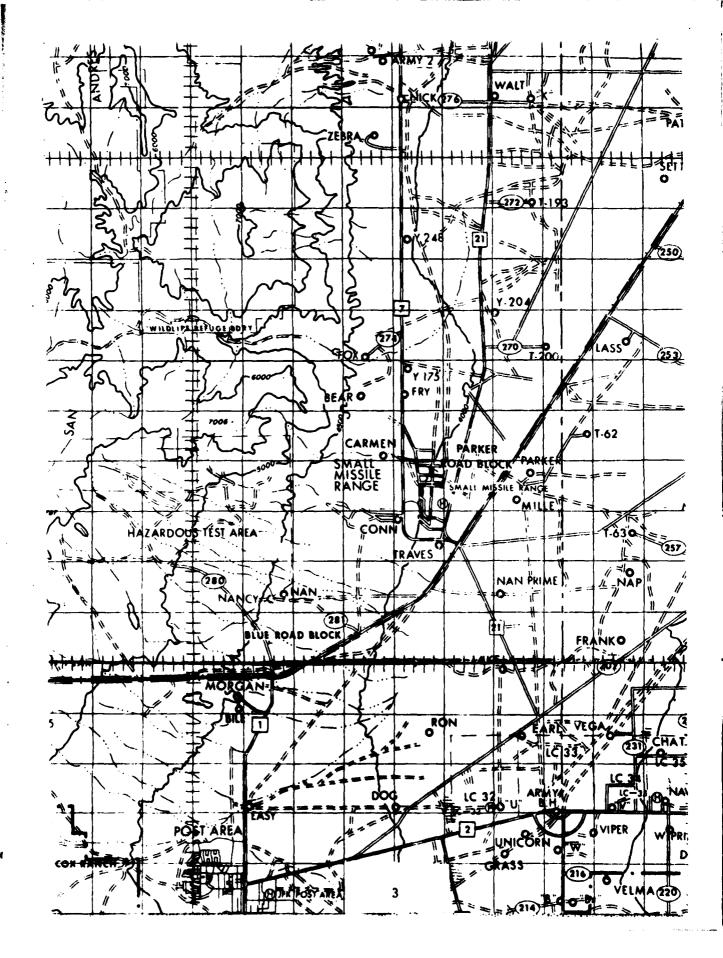


TABLE 1. Surface Observations taken at 0924 MDT, 10 October 1979, at LC-33, 19304D GSRS, Missile Numbers 1071, 1079, Round Numbers V-70, V-71.

| | | |
|-------------------|---------|-------------------|
| ELEVATION | 3977.30 | FT/MSL |
| PRESSURE | 887.3 | MBS |
| TEMPERATURE | 14.1 | o _C |
| RELATIVE HUMIDITY | 45 | % |
| DEW POINT | 2.4 | °C |
| DENSITY | 1071 | GM/M ³ |
| WIND SPEED | CALM | KTS |
| WIND DIRECTION | | DEGREES |
| CLOUD COVER | CLEAR | |

Δ

LC-33 FIXED POLE ANEMOMETER MEASURED WINDS

| | POLE #1 | | | POLE #2 | 2 | | POLE #3 | |
|---------------|------------|--------------|---------------|------------|--------------|---------------|------------|--------------|
| T-TIME SEC | DIR DEG | SPEED KTS | T-TIME SEC | DIR DEG | SPEED KTS | T-TIME SEC | DIR DEG | SPEED KTS |
| -30 | | CALM | -30 | MISG | 01 | -30 | | CALM |
| -20 | | CALM | -20 | MISG | 01 | -20 | | CALM |
| -10 | | CALM | -10 | | CALM | -10 | | CALM |
| 0.0 | | CALM | 0.0 | | CALM | 0.0 | | CALM |
| +10_ | | CALM | +10 | | CALM | +10 | | CALM |

POLE #1 = X485,874.29 Y185,958.90 H4018.74 38.7 ft. AGL

POLE #2 = X485,874.93 Y186,012.00 H4033.57 53.0 ft AGL

POLE #3 = X485,877.29 Y186,116.06 H4063.92 83.6 ft AGL

| TABLE 2 | |
|--------------------------------|------------------------------------------------|
| TYPE 19304D GSRS | MISSILE NOS. 1071, 1079 ROUND NOS. V-70, V-71 |
| LAUNCHED FROM LC-33 | DATE 10 October 1979 TIMES: 0924:, 0924:16 MDT |
| NOTE: WIND DIDECTIONS ARE DEED | DENCED TO TOUE NODTH |

LC-33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WINDS (202 FT TOWER)

| LEVEL #1 12 Feet | | | LEVE 62 F | L #2 eet | |
|---------------------|---------------|--------------|---------------|--------------|--------------|
| T-TIME SEC | DIR DEG | SPEED KTS | T-TIME SEC | DIR DEG | SPEED KTS |
| -30 | | CALM | -30 | | CALM |
| -20 | 141 | 02 | -20 | | CALM |
| -10 | 141 | 02 | -10 | | CALM |
| 0.0 | 141 | 01 | 0.0 | | CALM |
| +10 | | CALM | +10 | | CALM |
| | EL #3 Feet | 9. | LEVE 202 | L #4 Feet | |
| T-TIME SEC | DIR DEG | SPEED KTS | T-TIME SEC | DIR DEG | SPEED KTS |
| -30 | | CALM | -30 | | CALM |
| -20 | | CALM | -20 | | CALM |
| -10 | | CALM | -10 | | CALM |
| 0.0 | | CALM | 0.0 | | CALM |
| +10 | | CALM | +10 | | CALM |

| WTSM COORDINATES: | X484,982.64 | Y185,057.73 | Н3983.00 (Б | ase) | |
|-------------------|---------------|----------------------|--------------------|--------------------------|------|
| TABLE 3 | | | | | |
| TYPE 19304D GSRS | MISSILE NOS | s <u>. 1071, 107</u> | 9 ROUND NOS | . V-70, V-71 | |
| LAUNCHED FROM LC- | 33 | DATE <u>10 Octob</u> | <u>er 1979</u> TIM | ES: <u>0924, 0924:</u> 1 | 6 MD |
| NOTE: WIND DIRECT | IONS ARE REFE | RENCED TO TRI | F NORTH | | |

PILOT BALLOON MEASURED WIND DATA

| TABLE _ | 4 | , | | | | | | | |
|---------|---------|--------------|---------|--------|---------|---------|------------|-------------------|--|
| RELEASE | D FROM_ | LC-33 | DATE_ | 10 0 | ctober | 1979 | TIM | 0924 MDT | |
| RELEASE | D POINT | COORDINATES | (WSTM) | X= 4 | 86,037 | .24 Y= | 182,350.16 | H= <u>3977.30</u> | |
| MISSILE | TYPE_19 | 9304D GSRS | MISSILE | NO | 1071, | 1079 | ROUND NO |). V-70, V-71 | |
| MISSILE | LAUNCH | ED FROM LC- | 33 | DA | TE_10 | October | 1979 TIME | 0924, 0924:16 MDT | |
| NOTE: | זמ מאזש | RECTIONS ARE | REFEREN | ICED : | TO TRUE | NORTH. | - | | |

HEIGHTS ARE METERS AGL

| HEIGHT AGI | DIRECTION DEGREES | SPEED KTS |
|---------------|----------------------|--------------|
| SFC | | CALM |
| 90 | MISG. | MISG. |
| 150 | MISG. | MISG. |
| 210 | MISG. | MISG. |
| 270 | 245 | 01 |
| 330 | 214 | 06 |
| 390 | 194 | 06 |
| 500 | 209 | 06 |
| 650 | 288 | 06 |
| 800 | 296 | 13 |
| 950 | 318 | 15 |
| 1150 | 313 | 16 |
| 1350 | 329 | 23 |
| 1 1550 | 322 | 25 |

| HEIGHT AGL | DIRECTION DEGREES | SPEED KTS |
|---------------|-------------------|--------------|
| 1750 | 314 | 30 |
| 2000 | 314 | 32 |
| | | |
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| SIGNIFICANT LEVEL DATA | 2d300c033d | X X | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
|------------------------|-----------------------------------|--------------------------|-----------------------------------------|
| | STATION ALITTUNE 3997.30 FEET MSL | 10 OCT - 79 0824 HRS MST | ASCENSION NO. 338 |

TABLE 5

GEODETIC COOKDINATES 32-44034 LAT DEG 106-42307 LON DEG

| REL.HUM. PERCENT | 40.00.00.00.00.00.00.00.00.00.00.00.00.0 |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TEMPCRATURE IR DEWFOINT REES CENTIGRADE | 4 + CK - C - C - C - C - C - C - C - C - C |
| TEMPC AIR DEGREES | 11111111111111111111111111111111111111 |
| GEUMETRIC ALTITUDE MSL FELT | 3997.3 4466.2 5145.0 5414.6 5735.8 6390.2 7395.4 104908.2 16417.9 19398.1 20703.5 24939.7 30374.7 30374.7 30374.7 49595.0 40596.0 |
| PKESSURE MILLIBARS | 886.1 871.2 850.0 841.6 832.0 700.0 700.0 700.0 700.0 8501.4 7000.0 8501.4 7000.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250.0 8250 |

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| | GEODETIC COORDINATES | 32.48034 LAT DEG | 106.42307 LON DEG |
|----------------|-----------------------------------|--------------------------|---------------------------------------|
| UPPER AIR DAIA | 2430000330 | æ ሂ ss | i i i i i i i i i i i i i i i i i i i |
| | STATION ALIITUJE 3997.30 FEET MSL | 10 UCT - 79 0824 HRS NST | ASCENSION NO. 338 |

1.000225 1.000178 1.000175 1.000172 .000213 1.000139 1.000269 .000257 .000248 •000233 .000205 •0u0198 .000154 .000188 .000164 .000170 •000166 .000155 .000152 .000145 1.000135 .000261 .000252 .000242 .000217 • 0000202 .000191 .000168 .000164 .000162 .000159 .000157 .000148 •000161 .000142 **KEFRACTION** INUEX 19.7 19.4 19.1 19.3 20.0 21.1 22.2 23.2 19.1 SPEED KNOTS MINC DATA DIRECTIO. SPEEU OF SOUND 664.0 662.4 661.6 660.3 654.1 1069.3 105e.7 1039.0 1019.0 909•8 890•9 884•2 871.6 859.3 846.7 834.5 822.1 810.1 796.3 640.9 637.9 627.4 930 • 2 922 • 9 763.9 752.7 741.3 730.0 700.9 699.9 689.1 977.2 955.7 775.2 719.0 995.0 4.629 6.699 1.099 GM/CUBJC METER REL.HUM. DENSITY PERCENT AIR DEWPOINT UEGREES CENTIGRADE 44111114 TEMPERATURE 4.00 4 4.00 4 4.00 4 -2.2 -3.6 -5.0 -9.3 -12.8 -13.8 -1.1 -7.9 -10.5 HILLIUARS PRESSURE 713.3 700.6 647.7 840.0 870.1 854.5 839.1 824.1 809.4 795.0 700.8 700.8 755.1 759.6 675.0 602.6 650.3 655.4 6115.0 6115.0 6015.7 5511.4 5517.4 5517.8 5517.8 6917.8 478.6 409.1 459.7 450.5 406.2 460000 456000 456000 456000 456000 456000 456000 456000 456000 456000 456000 456000 456000 100000-0 11100000 11100000 11200000 11200000 11200000 11200000 11200000 17000.0 17500.0 22500.0 0.00061 GEUINE TRIC ALIITUUE MSL FELT 5.7656 0.0000 20000 190000 16500.0 9500.0 20200-0 41000-0 1500.0

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** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE "AS USED IN THE INTERPOLATION.

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JEODETIC COORDINATES 32.48034 LAT GEG 106.42307 LON DEG

STATION ALIITUDE 3997-30 FEET MSL 10 UCT - 79 0824 HRS MST ASCENSION 1.0 338

| MILL DATA TILN SPEED ES(IN) KNOTS | 3.5 | 11.0 | 9.62 | 9.67 | 25.4 | 20.5 | 19.0 | 23.0 | 23.4 | 26.8 | 23.8 | 30.6 | 53.7 | |
|-----------------------------------------|-------|-------|-------|-------|-------|-------|-------|------------|-------|-------|-------|-------|-------|-------|
| WILL DIRECTION DEGREES (1N) | 259.4 | 296.3 | 325.B | 314.2 | 505.7 | 315.5 | 323.B | 327.4 | 1555 | 14.2 | 22.1 | 331.4 | 3<1.1 | |
| REL.HUM. FERCENT | 37. | -72 | 16. | 17. | 10. | 7. | , 4.7 | . ¢ | 12. | 14. | 15. | | | |
| TEMPERATURE LES CENTIGRADE | -1.0 | 4.5- | 5-6- | -13.5 | -18.0 | -22.0 | -500- | -22.9 | -35.5 | -41.7 | 1.91- | | | |
| TEM AIR DEGREES | | 15.6 | 14.5 | 10.5 | 6.2 | 1.6 | -3.5 | -10.4 | -15.0 | -21.4 | -27.6 | -35.7 | -46.3 | -55.3 |
| PRESSURE GEUPOTENTIAL | | 6619. | | • | • | _ | • | | • | | • | Ī | · | • |
| PRESSURE (| 850.0 | 800.0 | 750.0 | 700.0 | 656.0 | 0.009 | 550.0 | 500.0 | 456.0 | 400.0 | 350.0 | 300.0 | 250.0 | 200.0 |

** AT LEAST DIVE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

REFERENCE LE BEST QUILLED DE CHECKELE

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